

Name
Date
School

Activity Guide for Pre-HOW 2005

Use these pages to record your responses to the Pre-HOW online activities. Completed work is due at Lake Placid in February.

Weather and Climate

1. Record two observations concerning the occurrence of precipitation on Earth from the data displayed in the animation.

2.
 - a. Record at least two observations concerning the presence of water on Earth as seen in the World Cloud Cover Pattern image.

 - b. Compare your observations of both the Precipitation animation and the World Cloud Cover Pattern image. How are they similar? How are they different?

3. Note the current and forecast temperatures for the Lake Placid area.

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4. Describe the relationship between temperature and precipitation as shown in the climagraph slide.
5. Summarize the points made by Dr. Moustafa Chahine in “What is the difference between weather and climate?”
6.
 - a. Describe any relationship that you observe between temperature and precipitation in the climagraphs at the Climatic Data Center website.
 - b. Record at least two observations about the relationship between temperature and precipitation as shown on the climagraphs for the two cities chosen. For your collected data gathered prior to HOW at Lake Placid, attach a graph following the examples at the Volunteer State website. Describe what trends or relationships the graphing of your data has made visible to you.

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c. Respond in writing to, supported with scientific examples, the analogy drawn by Moustafa Chahine for the difference between weather and climate as stated below: “It is sometimes compared to having your own favorite sports team; they win one day, they lose at another game, but at the end of the season, you say we have a winning season or this is a winning team.”

Snow Pit

4. Write a summary statement to summarize the relationship between temperature and depth in a snow pit.

Ice Core/Thin Section

4. Write a statement to summarize the characteristics of the ice in relation to the conditions as the water froze as seen in the thin ice sections.

Snowflake

5. Write a summary statement of what snowflakes can say about atmospheric conditions at the time of snowfall.